

*Amendments to the Claims:*

This listing of claims will replace all prior versions, and listings, of claims in the application

*Listing of Claims:*

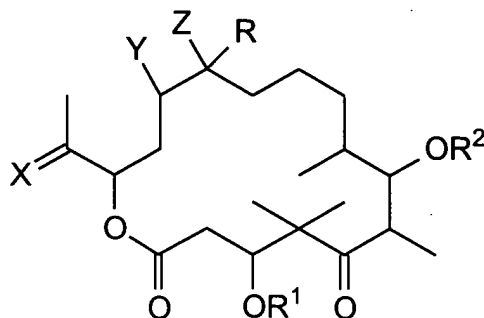
1-16 (Cancelled)

17. (Previously submitted) Process for the preparation of epothilone A and/or 12,13-bisepothilone A, wherein epothilone C is epoxidised, especially with dimethyldioxirane or with a peracid.

18. (Previously submitted) Process for the preparation of epothilone B and/or 12,13-bisepothilone B, wherein epothilone D is epoxidised, especially with dimethyldioxirane or with a peracid.

19-20 (cancelled)

21. (New) A compound of the formula:



wherein

R is hydrogen or C<sub>1-4</sub>alkyl;

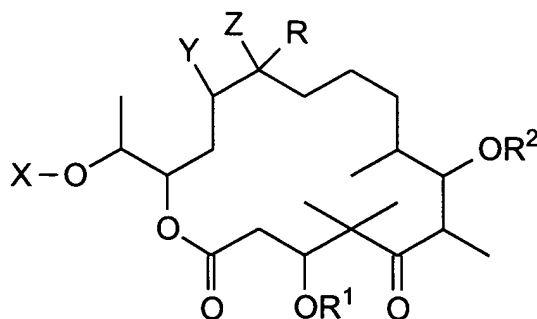
X is oxygen, NOR<sup>3</sup>, N-NR<sup>4</sup>R<sup>5</sup>, or N-NHCONR<sup>4</sup>R<sup>5</sup>;

each of R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, and R<sup>5</sup>, independently from the others, is hydrogen, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>acyl, benzoyl, C<sub>1-4</sub>trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C<sub>1-6</sub>alkoxy, C<sub>1-6</sub>alkyl, hydroxy, or halogen, or R<sup>4</sup> and R<sup>5</sup> together

are C<sub>2-6</sub>alkylene group, and the alkyl, alkylene, and acyl groups contained in the radicals are straight-chain or branched radicals; and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C<sub>1-6</sub>)alkyl, O-(C<sub>1-6</sub>)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond.

22. (New) The compound according to claim 21 in which each of R, R<sup>1</sup>, and R<sup>2</sup> is hydrogen, X is oxygen, and Y and Z together are oxygen.

23. (New) A compound of the formula:



wherein

R is hydrogen or C<sub>1-4</sub>alkyl;

X is hydrogen, C<sub>1-18</sub>alkyl, C<sub>1-18</sub>acyl, benzyl, benzoyl, or cinnamoyl;

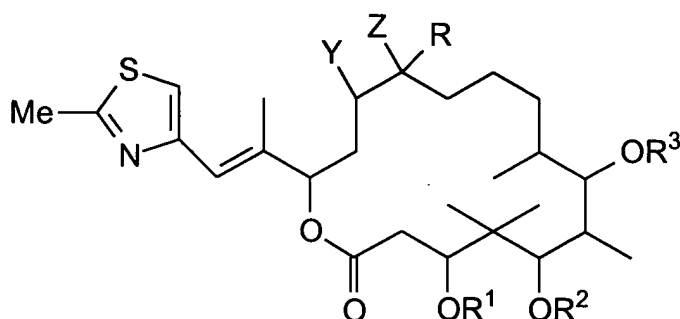
each of R<sup>1</sup> and R<sup>2</sup>, independently from the other, is hydrogen, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>acyl, benzoyl, C<sub>1-4</sub>trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C<sub>1-6</sub>alkoxy, C<sub>1-6</sub>alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals; and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C<sub>1-6</sub>)alkyl, O-(C<sub>1-6</sub>)acyl or O-benzoyl, or Y and Z together are

oxygen or a carbon-carbon bond.

24. (New) A pharmaceutical composition comprising a compound according to any of claims 21, 22, and 23 in combination with a pharmaceutically acceptable carrier.

25. (New) A pharmaceutical composition comprising a compound of the formula

(i)

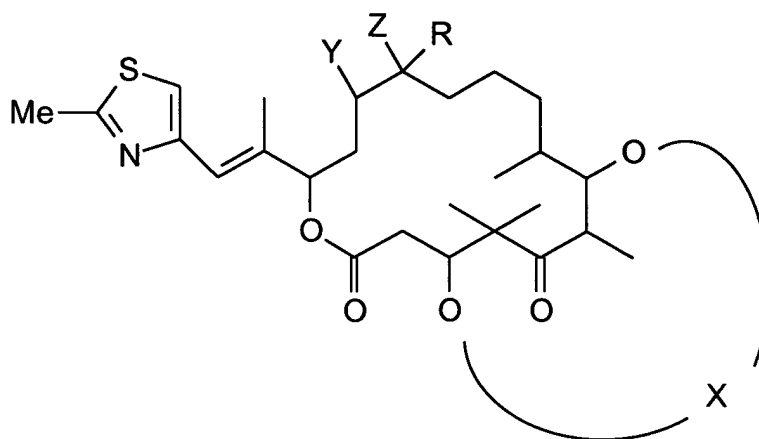


wherein

R is hydrogen or C<sub>1-4</sub>alkyl;

each of R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup>, independently from the others, is hydrogen, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>acyl, benzoyl, C<sub>1-4</sub>trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C<sub>1-6</sub>alkoxy, C<sub>1-6</sub>alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals; and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C<sub>1-6</sub>)alkyl, O-(C<sub>1-6</sub>)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond;

(ii)



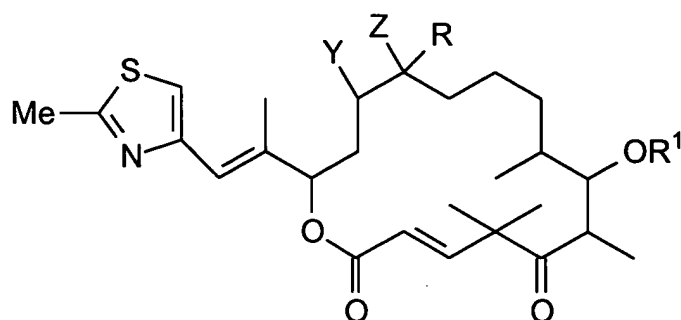
wherein

R is hydrogen or C<sub>1-4</sub>alkyl;

X is -C(O)-, -C(S)-, -S(O)-, -CR<sup>1</sup>R<sup>2</sup>-, or -SiR<sup>2</sup>- in which each of R<sup>1</sup> and R<sup>2</sup>, independently from the other, is hydrogen, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>acyl, benzoyl, C<sub>1-4</sub>trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C<sub>1-6</sub>alkoxy, C<sub>1-6</sub>alkyl, hydroxy, or halogen, or R<sup>1</sup> and R<sup>2</sup> taken together are C<sub>2-6</sub>alkylene, and the alkyl, alkylene, and acyl groups contained in the radicals are straight-chain or branched radicals; and

each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C<sub>1-6</sub>)alkyl, O-(C<sub>1-6</sub>)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond;

(iii)



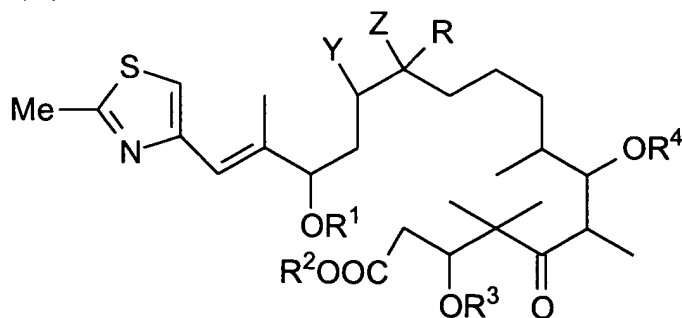
wherein

R is hydrogen or C<sub>1-4</sub>alkyl;

R<sup>1</sup> is hydrogen, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>acyl, benzoyl, C<sub>1-4</sub>trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C<sub>1-6</sub>alkoxy, C<sub>1-6</sub>alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals; and

each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C<sub>1-6</sub>)alkyl, O-(C<sub>1-6</sub>)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond; or

(iv)



wherein

R is hydrogen or C<sub>1-4</sub>alkyl;

each of R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup>, independently from the others, is hydrogen, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>acyl, benzoyl, C<sub>1-4</sub>trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C<sub>1-6</sub>alkoxy, C<sub>1-6</sub>alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals, and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C<sub>1-6</sub>)alkyl, O-(C<sub>1-6</sub>)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond;

in combination with a pharmaceutically acceptable carrier.

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